



-40

Apo2 1 -----MEQRGQNA<sup>↓</sup>PAASGARKRHGPGPREARGARPGLRVPKTLVL  
 Apo2DcR 1 -----MARIPKTLKFVV  
 DR4 51 GRGALPTSMGQHGPSARARAGRAPGP~~P~~AREASPRLRVHKTFKFVVVGVL

Apo2 41 VVA<sup>↓</sup>AVLLLVSAESALITQODLAPQRAAPQOKESSPSEGLCPPGHISED  
 Apo2DcR 13 VIVAVLLPVLAYSATTARQEEVPOQTVAPOQQRHSFKEECPAGSHRSEH  
 DR4 101 LQVVPSSAATIK-----LHDQSIGTQOWEHSPLGELCPPGSHRSEH

Apo2 91 GRDCISCKYGDYSTHWNDILFGLRCTRCD<sup>CRD1</sup>SGEVELSPCTTTTNTVCOGE  
 Apo2DcR 63 TGACNPCTEGVDYTNASNNPSCFPC<sup>CRD1</sup>TVCKSDQKHKSCTMTTRDTVCOCK  
 DR4 142 PGACNRCTEGVGYTNASNNLFA<sup>CRD1</sup>CLPCTACKSDEEERSPCTTTTNTACOCK

Apo2 141 EGTFREEDSP<sup>CRD2</sup>EMCRKCRITGCP<sup>CRD2</sup>RGMVKVGDCTPWS<sup>CRD2</sup>DI<sup>CRD2</sup>ECVHKE-----  
 Apo2DcR 113 EGTFRNENSP<sup>CRD2</sup>EMCRKCSR-CPSGEVOVS<sup>CRD2</sup>NCTSWDDI<sup>CRD2</sup>QCV<sup>CRD2</sup>E-EFGANATVE  
 DR4 192 PGTERNDNSAEMCRK<sup>CRD2</sup>CTGCP<sup>CRD2</sup>RGMVKVGDCTPWS<sup>CRD2</sup>DI<sup>CRD2</sup>ECVHKE-----

Apo2 -----  
 Apo2DcR 161 TPAAEETMNTSPGTPAPAAEETMNTSPGTPAPAAEETMTTSPGTPAPAAE  
 DR4 -----

Apo2 183 -----SGITIGVTVAAVVLIVAVFV---  
 Apo2DcR 211 ETMTTSPGTPAPAAEETMTTSPGTPASSHYLSCTIVGIIVLIVLLIVFV  
 DR4 234 -----SGNGHNIWVELVVELLVPLILVAV-LIVC

Apo2 203 CKSLLWKKVLPYLKGICSGGGGDPERVDRSSQRPGAEDNVLNEIVSILQP  
 DR4 262 CCIGSGCGGDPKCMDRVCFWRLGLLRPGAEDNAHNEILSNADSLSTFVS

Apo2 253 TQVPEQEMEVOEPAEPTGVNMLSPGESEHLLPAAEAERSORRRLLVPANE  
 DR4 312 ----EQOMESQEPADLTGVTVQSPGEAQCLLGPAAEAGSORRRLLVPANG

Apo2 303 GDPTETLRQCFDDFADLVPPDSWEPI<sup>\*</sup>MRKIGIMDNEEKVAKAEAACH--R  
 DR4 358 ADPTETLMLFFDKFANIVPDSWDQIMRQIDETKNEIDVV<sup>\*</sup>RAGTAGP--G  
 Apo3/DR3 338 VMDAVPARRWKEFVRTLGLEAEIEAVEVEI-GRF-R  
 TNFR1 322 VVENVPPLRWKEFVRLGLSDHEIDRL<sup>\*</sup>ELON-GRCLR  
 CD95 220 IAGVHTLSQVKGFVRKNGVNEAKIDEIKNDN-VQDTA

Apo2 351 DTLYTMLIKWVNKTGR-DASVHTLLDALET<sup>\*</sup>LGERIAKOKIEDHLLSSCKF  
 DR4 406 DALYAMLMKWVNKTGR-NASIH<sup>\*</sup>TLLDALERMEERHAK<sup>\*</sup>EKIQDLLVDSCKF  
 Apo3/DR3 374 DQQYEMLKRW<sup>\*</sup>RQQQP---AGLGAVYAALERMGLDGCVEDLRS  
 TNFR1 358 EAQYSMLATWRRRT<sup>\*</sup>PPREATLELLGRVLRDM<sup>\*</sup>DLGLEDIEE  
 CD95 256 EQKVQLLRNWHQLHGKKEAY-DTLIKDLK<sup>\*</sup>KANLCTLAEKIQ<sup>\*</sup>T

Apo2 400 MYLEGNADSALS  
 DR4 455 IYLEDGTGSAVSLE

Fig. 2

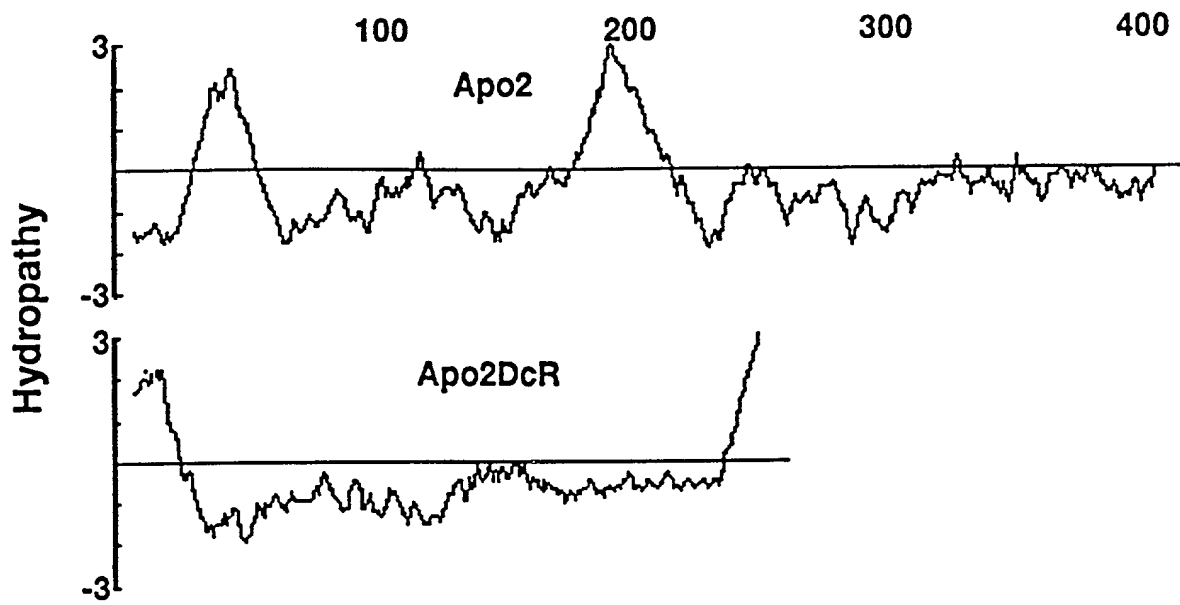


Figure 3

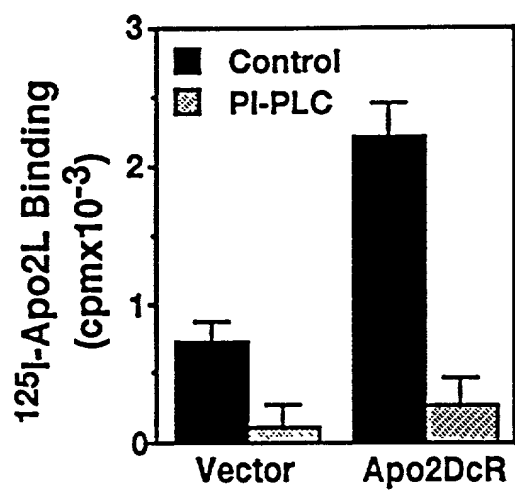


Figure 4

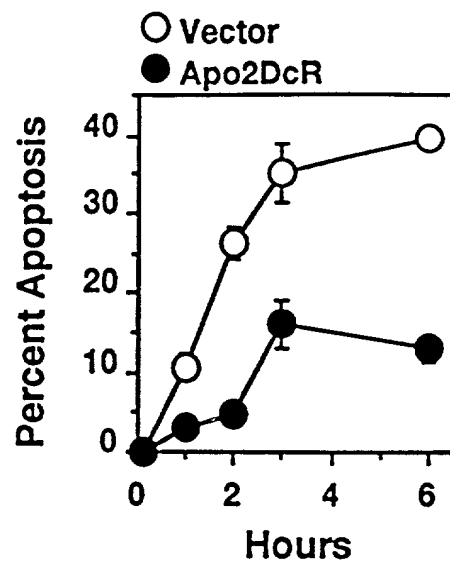


Figure 5

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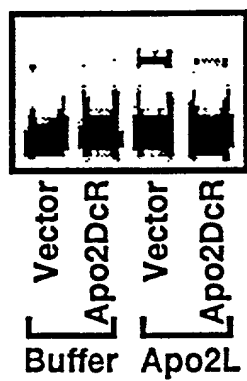


Figure 6

Fig. 7A

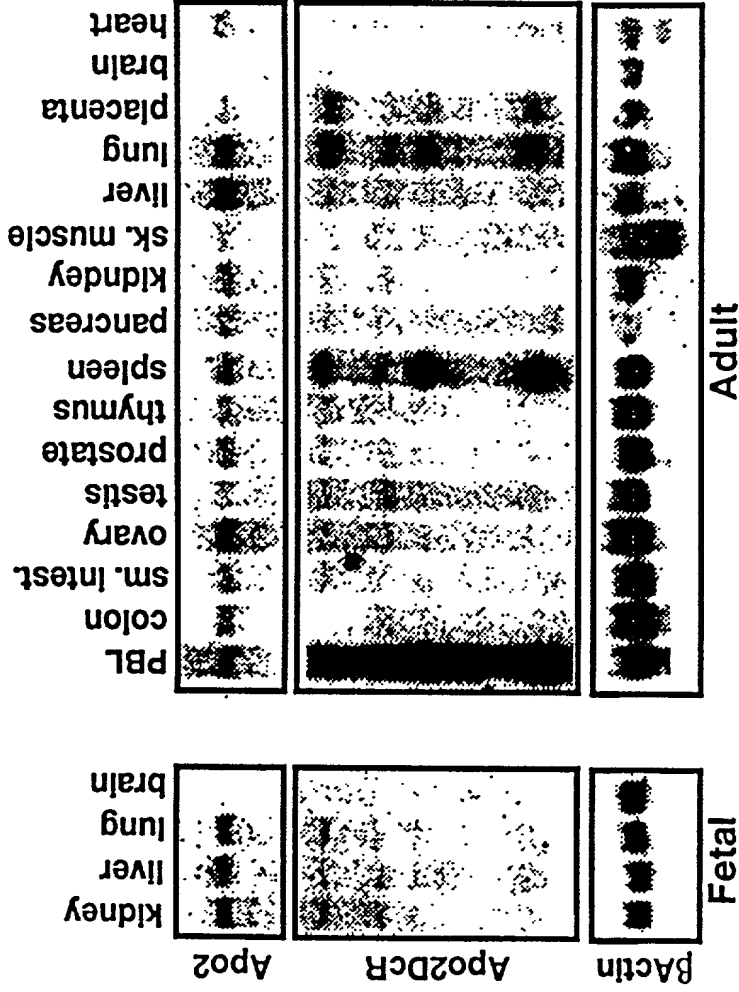
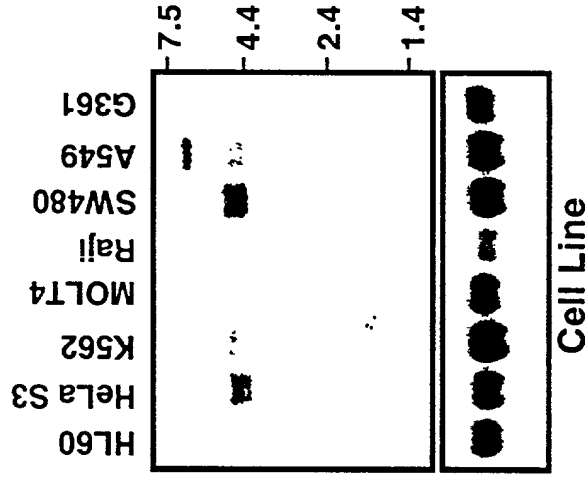


Fig. 7B





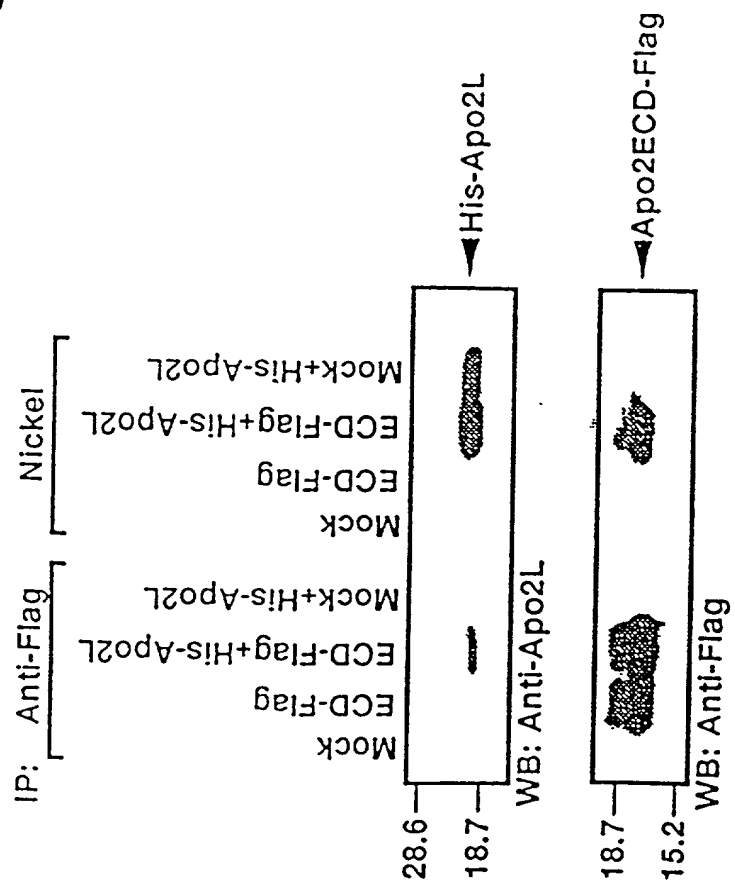
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 101 CCACGGGCTT GAGAGACTAT AAGAGCGTTC CCTACGGCCA TGAACAACG GGGACAGAAC GCGCGGGCGG CTTCGGGGGGC CCGGAAAAAGG CACGGCCCCAG  
 GGTGCCCGGA CTCTCTGATA TTCTCGCAAG GATGGCGGT ACCTGTGTC CCTGTCTTG CCGGGCCGGC GAAGCCCCCG GGCCTTTTC GTCCCGGGTC  
 1 M etGluGlnar gGlyGlnasn AlaProAla laSerGlyAl aArgLysArg HisGlyProGly  
 201 GACCCAGGGA GGGCGGGGA GCCAGGCGTG GGTCCGGGT CCCCAGACC CTGTGCTCG TTGTGCGCGG GGTCTGCTG TTGCTCTCAG CTGAGTCTGC  
 CTGGGTCCCT CCGGCCCTT CCGTCCGGAC CCGAGGCCCA GGGTTCTGG GAACACGAGC AACAGCGGGC CCAGGACGAC AACAGAGTC GACTCAGACG  
 22 ProArgG1 uAlaArgGly AlaArgProG lAlaArgVa lProLysThr LeuValLeuV alValAlaAl aValLeuLeu LeuValserA laGluSerAl  
 301 TCTGATCACC CAACAAGACC TAGTCCCCA GCAGAGAGCG CCCCACAAAC AAAAGAGGTC CAGCCCCCTCA GAGGGATTGT GTCCACCTGG ACACCATATC  
 AGACTAGTGG GTTGTCTGG ATCGAGGGGT CGTCTCTCG CCGGTGTTG TTTTCTCCAG GTCGGGGAGT CTCCCTAACA CAGGTGGACC TGTGGTATAG  
 55 LeuileThr GlnGlnAspL euAlaProG1 nGlnArgAla AlaProGlnG lNlysArgSe rSerProSer GluGlyLeuC ysProProG1 yHisHisile  
 401 TCAGAAAGACG GTAGAGATTG CATCTCCTGC AAATATGGAC AGGACTATAG CACTCACTGG AATGACCTCC TTTTCTGCTT GCGCTGCACC AGGTGTGATT  
 AGTCTTCTGC CATCTCTAAC GTAGAGGACG TTTATACCTG TCCTGATATC GTAGTGACC TTACTGGAGG AAAAGACGAA CCGACCTGTTGCCACACTAA  
 88 SerGluAspG lArgAspCy sileSerCys LysTyrglyG lNAspTyrse rThrHisTrp AsnAspLeuL eupheCysLe uArgCysThr ArgCysAspSer  
 501 CAGGTGAAGT GGAGCTAAGT CCCTGCACCA CGACCAGAAA CACAGTCTGT CAGTGGGAAG AAGGCACCTT CCGGGAAGAA GATTCTCCTG AGATGTGCCG  
 GTCCACTTCA CCTCGATTCA GGCAGTGGT GCTGGTCTTT GTGTACACA GTACAGCTTC TTCCGTGAA GGCCTTCTT CTAAGAGGAC TCTACACGGC  
 122 GlyGluVa lGluLeuser ProCysThrT hrThrArgAs nThrValCys GlnCysGluG lNlyThrPh eArgGluGlu AspSerProG luMetCysArg  
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 CCTCAGTGC AACGTGGCA TCAGAACTAA CACCGACACA CACCAACGTT CAGAAATGAC ACCTTCTTTC AGGAAGGAAT GGACTTTCCG TAGACGAGTC  
 188 GlyValThr vAlaAlaVa lValLeuile vAlaAlaValP heValCysLy sserLeuLeu TrpLysLysv alLeuProTy rLeuLysGly IleCysSerGly  
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 901 GGTCCCTGAG CAGGAAATGG AAGTCCAGGA GCCAGCAGAG CCAACAGGTG TCAACATGTT GTCCCCCGGG GAGTCAGAGC ATCTGCTGGA ACCGGCAGAA  
 CCAGGGACTC GTCCTTTACC TTCAGGTCTC CCGTCTCTC GGTGTCCAC AGTTGTACAA CAGGGGGCCC CTCAGTCTCG TAGACGACCT TGGCCGTCTT  
 255 ValProGlu GlnGluMetG luValGlnG1 uProAlaGlu ProThrGlyV alasnMetle userProGly GluSerGluH isLeuLeuG lUpAlaGlu  
 1001 GCTGAAAGGT CTCAGAGGAG GAGGCTGCTG GTTCCAGCAA ATGAAGGTGA TCCCAGTGAG ACTCTGAGAC AGTGCTTCGA TGACTTTGCA GACTTGGTGC  
 CGACTTTCCA GAGTCTCTC CTCCGACGAC CAAGGTCTGT TACTTCCACT AGGTGACTC TGAGACTCTG TCACGAAGCT ACTGAAACGT CTGAACCCAG  
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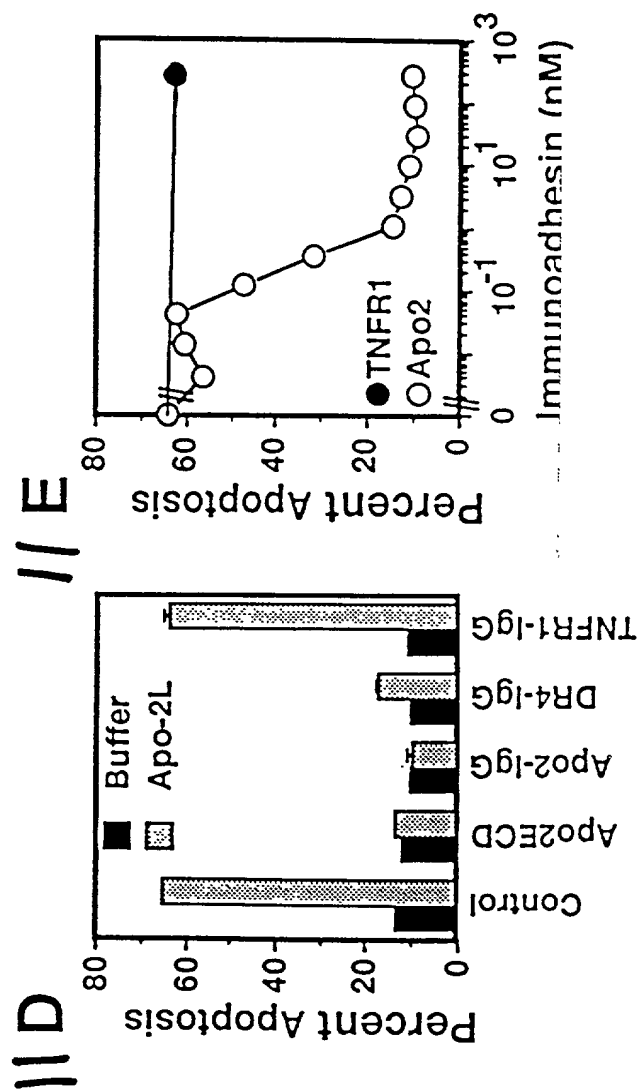
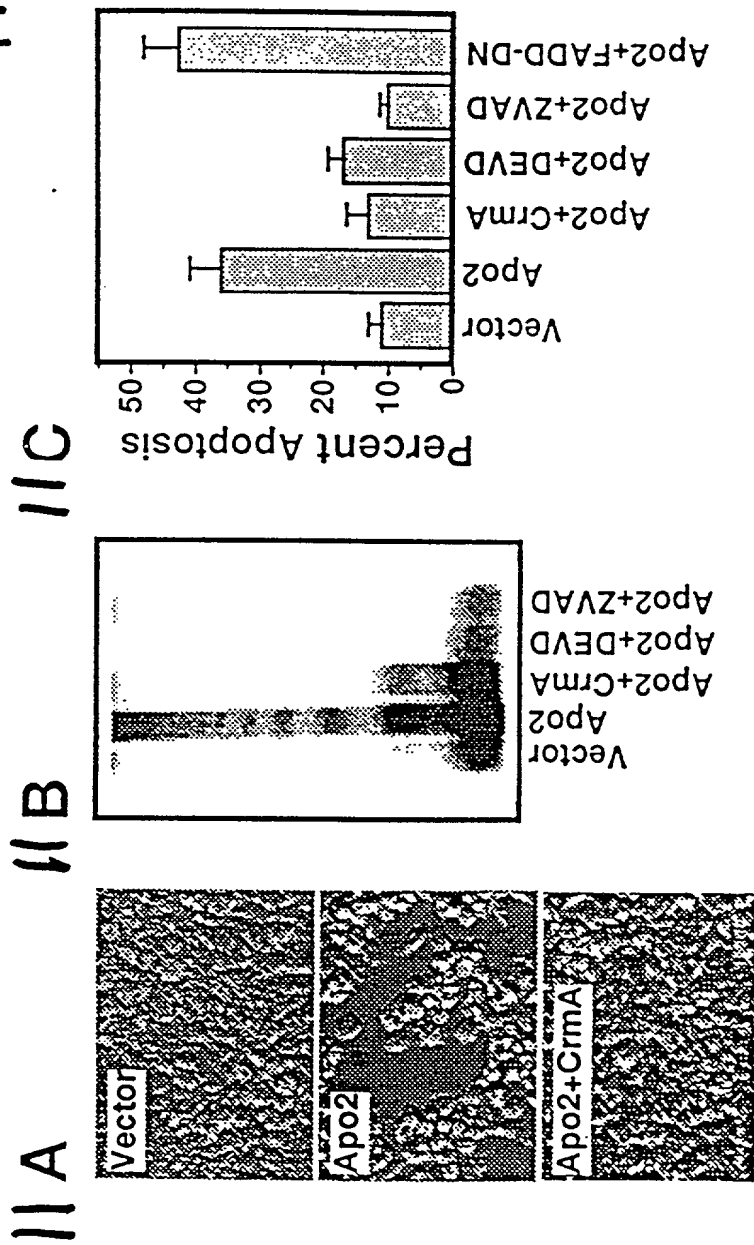
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322 Pheaspse rTrpGluPro LeuMetArgL ysLeuGlyLe uMetAspAsn GluileLysV alalalysAl aGluAlaAla GlyHisArga spThrLeuTyx  
1201 CACGATGCTG ATRAAAGTGG TCAACAAAAC CGGGCGAGAT GCCTCTGTCC ACACCCCTGCT GGATGCCTTG GAGACGCTGG GAGAGAGACT TGCCAAAGCAG  
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355 ThrMetLeu IleLysTrpV alAsnLysTh rGlyArgAsp AlaservAlH isThrLeule uAspAlaLeu GluThrLeug lyGluArgLe uAlalysGln  
1301 AAGATTGAGG ACCACTTGTG GAGCTCTGGA AAGTTCATGT ATCTAGAAGG TAATGCAGAC TCTGCCCTGT CCTAAGTGTG ATTCTCTTCA GGAAGTGAGA  
TTCTAACTCC TGGTGAACAA CTCGAGACCT TTCAAGTACA TAGATCTTCC ATTACGTCTG AGACGGGAACA GGATTCACAC TAAGAGAAGT CCTTCACTCT  
388 LysIleGluA spHisLeuLe uSerSerGly LysPheMetT yrLeuGluGl yAsnAlaAsp SerAlaXqqS erOC\*  
1401 CCTTCCCTGG TTACCTTTT TTCTGGAAAA AGCCCAACTG GACTCCAGTC AGTAGGAAAAG TGCCACAATT GTACATGAC CCGTACTGGA AGAAACTCTC  
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1501 CCATCCAACA TCACCCAGTG GATGGAACAT CCTGTAACTT TTCACCTGCAC TTGGCATTTAT TTTTATAAGC TGAATGTGAT AATAAGGACA CTATGGAAAT  
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1601 GTCTGGATCA TTCCGTTTGT GCGTACTTTG AGATTGGGT TGGGATGTCA TTGTTTTCAC AGCACTTTT TATCCTAATG TAAATGCTTT ATTTATTTAT  
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1701 TTGGGGTACA TTGTAAGATC CATCTACAAA AAAAAAAAAA AAAAAAAAAA GCGGGCCCGG ACTCTAGAGT CGACCTGCAG AAGCTTGGCC GCCATGGCC  
AACCCGATGT AACATTCTAG GTAGATGTTT TTTTTTTTTT TTTTTTTTTT CCGCCGGCGC TGAGATCTCA GCTGGACGTC TTCGAAACCGG CCGTACCGG

Fig. 8 (cont.)

Fig. 9

1 MEORGONAPAAASGAR~~KRHGPGPREARGAPGLRVPKTLVLVVA~~ALLVSAESALITQQD  
61 LAPQRAAPQOKRSSPSEGLCPPGHHISEDGRDCISCKYGQDYSTHWN~~DLLEFLCLR~~CTRCD  
121 SGEVELSPCTTTRNTVQCEEGTFREEDSP~~EMCRKCR~~TGCPRGVMKVGDCTPWS~~DI~~ECVH  
181 KESGIIIGTVAAVLI~~AVFVCKSL~~KKVLPYLKGCSSGGGDP~~PERVDRSSQ~~RPGAED  
241 NVLNEIVSILQ~~TQVPEQEME~~VQEPAEPTGVNMLSPGESEHLL~~EPAE~~AERSQRRRLVPA  
301 NEGDPTE~~TLRQC~~FFDADLVPPDSWEPLMRKLG~~LMDNEIKVAK~~EEAAGHRD~~TLTY~~MLIKW  
361 VNKTGRDASVHTLLDALET~~GLER~~LAKQKIEDHLLSSGKFMYLEGNAD~~SALS~~





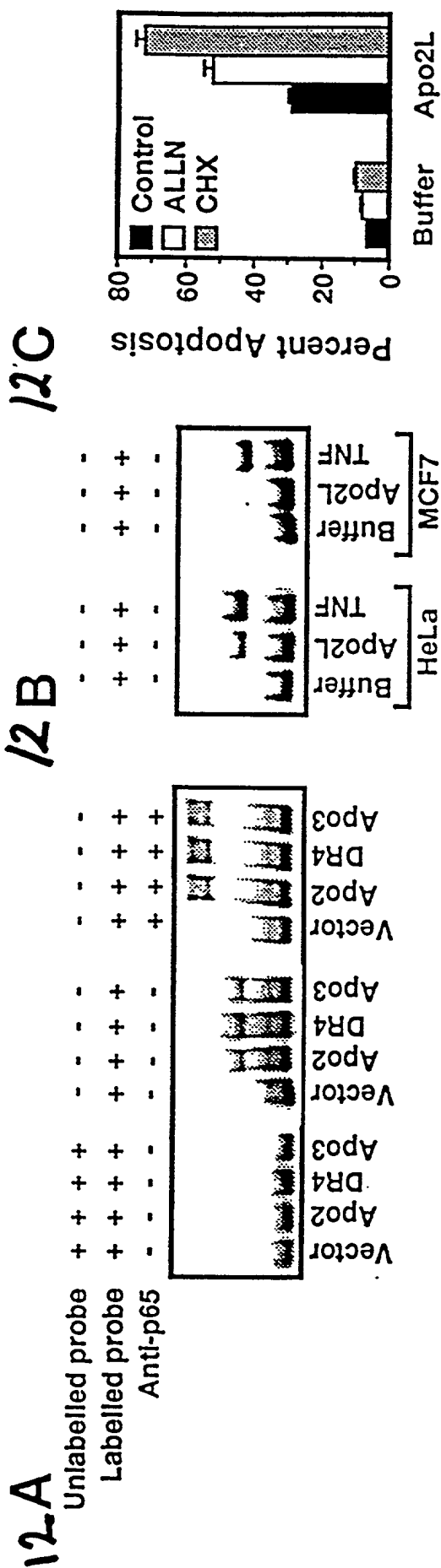
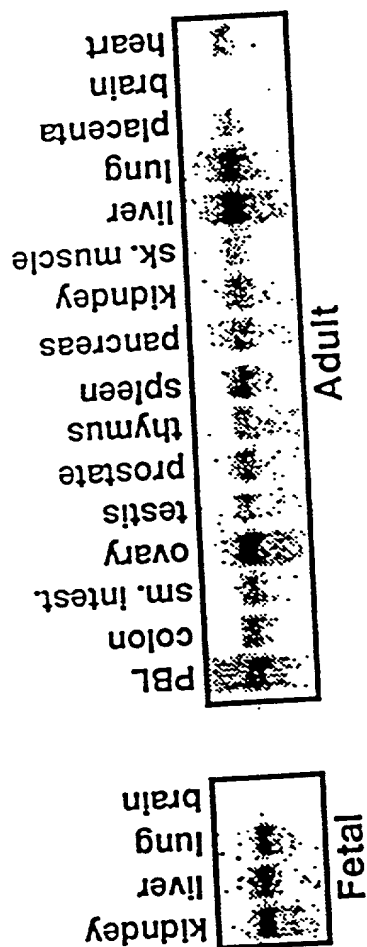


Fig. 12

FIG. 13



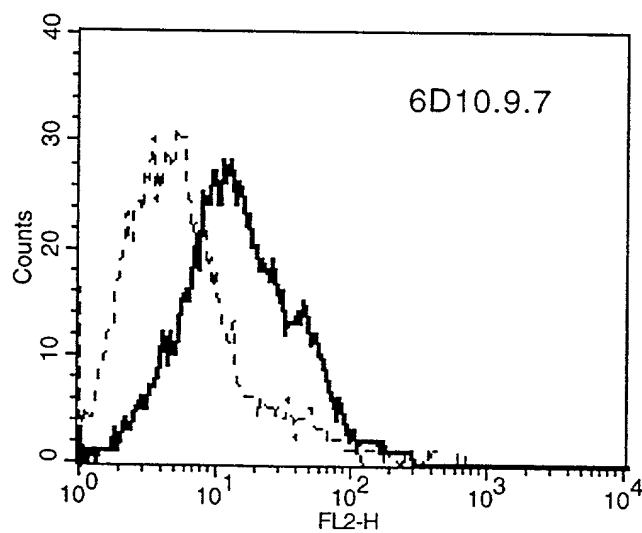
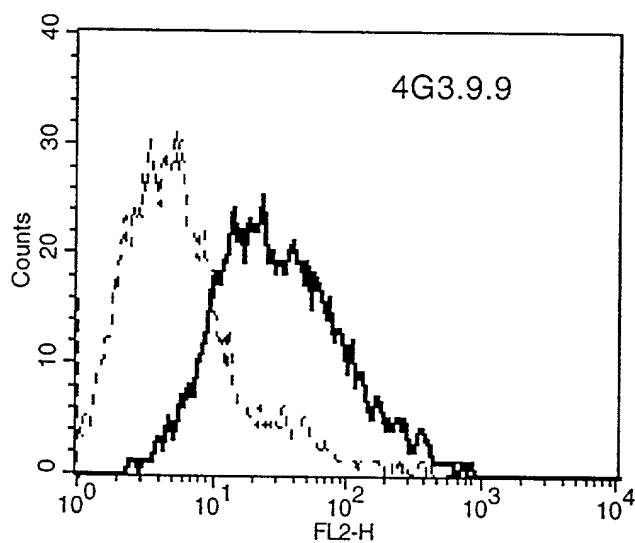
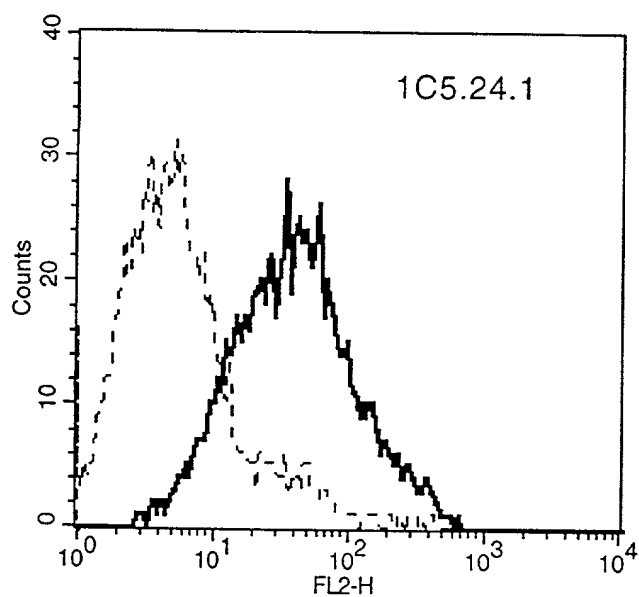


Fig. 14



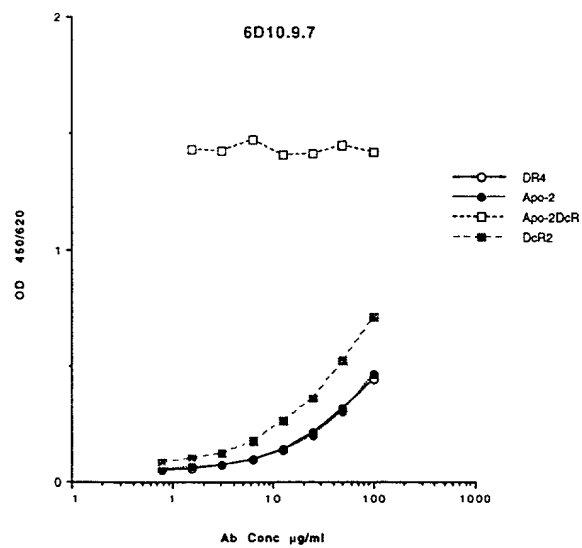
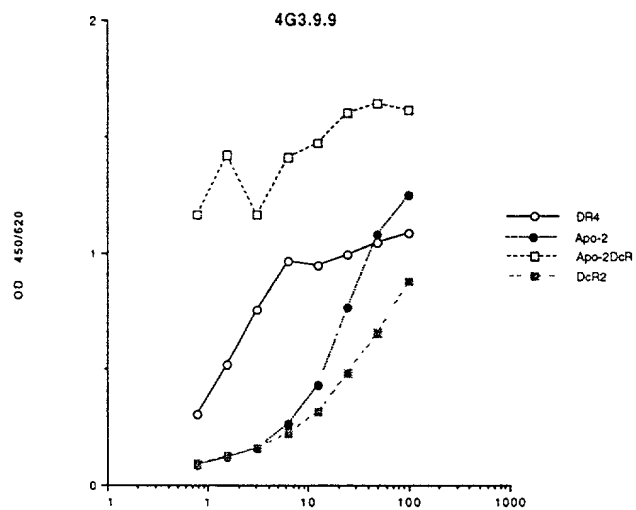
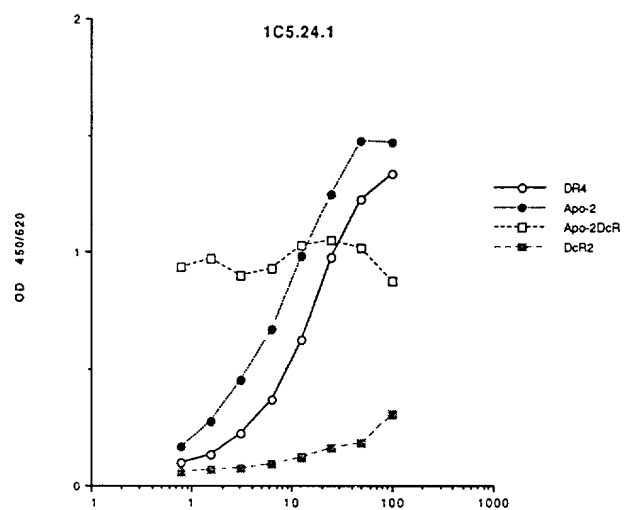


Fig. 15

## Summary of mAbs to DcR1

mAbs	ISOTYPE	FACS (HUMEC)	DR4	Cross reactivity		
				Apo-2	Apo-2DcR	DcR2
1C5.24.1	IgG1	+	++	+++	+++	-
4G3.9.9	IgG1	+	++	+	+++	+/-
6D10.9.7	IgG2b	+	-	-	+++	+/-

Percent Cross reactivity was determined by comparing the binding capacity to Apo-2DcR at 10 ug/ml of mAbs in ELISA. ++: >75% , +: 25-75%, +/-: 10-25%, -: <10% .

Fig. 16

Fig. 16